

Title (en)
VARIABLE LENGTH BURST TRANSMISSION OVER THE PHYSICAL LAYER OF A MULTILAYER TRANSMISSION FORMAT

Title (de)
BURSTÜBERTRAGUNG VARIABLER LÄNGE ÜBER DIE PHYSIKALISCHE SCHICHT EINES MEHRSCICHTEN-ÜBERTRAGUNGSFORMATS

Title (fr)
TRANSMISSION PAR SALVES DE LONGUEUR VARIABLE SUR LA COUCHE PHYSIQUE D'UN SYSTEME DE TRANSMISSION MULTICOUCHE

Publication
EP 0857400 B1 20050413 (EN)

Application
EP 96936841 A 19961023

Priority
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• US 604295 P 19951024

Abstract (en)
[origin: WO9716046A1] Apparatus is provided for communicating data packets in variable length bursts over a physical layer in a multilayer data communication scheme. Each burst contains information data (40, 50, 60, 64, 74, 78, 82) and overhead (30, 32, 34, 36, 38, 42, 44, 62, 66, 76, 80, 84). The overhead includes forward error control (FEC) data (42, 62, 66, 76, 80, 84). Different burst modes (Figs. 2, 3, 4, 5) are provided to enable a trade-off to be made between bandwidth efficiency and data transmission robustness. The burst modes provide different combinations of modulation (such as QPSK and 16-QAM), symbol rates, FEC coding levels and frame and preamble structure. The apparatus is particularly suitable for use in upstream communications over hybrid fiber coax cable television plants.

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IPC 8 full level
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WO 9716046 A1 19970501; AU 706233 B2 19990610; AU 7466596 A 19970515; BR 9611138 A 19991228; CA 2235373 A1 19970501; CA 2235373 C 20041207; CN 1203013 A 19981223; DE 69634607 D1 20050519; DE 69634607 T2 20060302; EP 0857400 A1 19980812; EP 0857400 B1 20050413; IL 124183 A 20010724; JP 2000508128 A 20000627; KR 100451118 B1 20050629; KR 19990067037 A 19990816; NO 981829 D0 19980423; NO 981829 L 19980623; TW 309686 B 19970701; US 6285681 B1 20010904

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